Windows Command Prompt CHEAT SHEET

1. Navigation & Directory Management

Command	Description	Example
`cd`	Change directory	`cd C:\Windows\System32`
`cd..`	Move to parent directory	`cd..`
`cd\`	Move to root directory	`cd\`
`dir`	List directory contents	`dir C:\Windows`
`mkdir`	Create directory	`mkdir NewFolder`
`rmdir`	Remove directory (empty)	`rmdir OldFolder`
`rd`	Remove directory (syntax variant)	`rd OldFolder`
`attrib`	Set file attributes	`attrib +R file.txt`
`path`	View/set system path	`path C:\Python;%path%`

2. File System Operations

Command	Description	Example
`copy`	Copy files	`copy source.txt C:\Destination`
`move`	Move files	`move source.txt C:\Destination`
`type`	Display file content	`type file.txt`
`ren`	Rename files/folders	`ren oldname.txt newname.txt`
`del`	Delete files	`del file.txt`
`erase`	Delete files (alias of del)	`erase file.txt`
`icacls`	Manage file permissions	`icacls file.txt /q`
`forfiles`	Batch operations on files	`forfiles /c "cmd /c if @reltime gt 0x3e8 del @path"`
`robocopy`	Robust file copying/synchronization	`robocopy C:\Source D:\Destination /e`
`fsutil`	File system utilities	`fsutil dirty set C:`

3. Process Management

Command	Description	Example
`tasklist`	List all running processes	`tasklist`
`taskkill`	Terminate a process	`taskkill /im notepad.exe`
`net user`	Manage user accounts	`net user`
`sfc /scannow`	Scan and repair system files	`sfc /scannow`
`shutdown`	Shutdown or restart the system	`shutdown /r /t 60`

4. System Information

Command	Description	Example
`ver`	View system version	`ver`
`winver`	Show Windows version dialog	`winver`
`systeminfo`	Detailed system information	`systeminfo`
`wmic`	Windows Management Instrumentation	`wmic os get Caption`
`hostname`	View computer name	`hostname`
`ipconfig`	Display network configuration	`ipconfig /all`

5. Networking Commands

Command	Description	Example
`ping`	Test network connectivity	`ping google.com`
`tracert`	Trace route to a host	`tracert google.com`
`netstat`	Display network connections	`netstat -ano`
`ipconfig`	View/change network settings	`ipconfig /release` `ipconfig /renew`
`netsh`	Network configuration	`netsh interface ipv4 add address "Local Area Connection" 192.168.1.100 255.255.255.0`

6. Batch Scripting Basics

Command	Description	Example
`@echo off`	Disable command echoing	`@echo off`
`echo`	Display messages	`echo Hello World`
`set`	Define environment variables	`set /a var=10`
`call`	Call another batch file	`call script.bat`
`if`	Conditional execution	`if exist file.txt del file.txt`
`for`	Loop through values	`for %%i in (1 2) do echo %%i`

7. Special Commands

Command	Description	Example
`help`	Show command help	`help dir`
`more`	Display content page by page	`more file.txt`
`findstr`	Search for strings in files	`findstr "error" log.txt`
`where`	Find files in PATH	`where file.txt`
`assoc`	View file associations	`assoc .txt`
`ftype`	View file type associations	`ftype .txt`

8. Advanced Features

Command	Description	Example
`choice`	Interactive command prompt	`choice /c YN /n /d Y /m "Proceed?"`
`timeout`	Wait for specified seconds	`timeout /t 10 /nobreak`
`set /p`	Prompt for user input	`set /p var=Enter value:`
`start`	Start a program or batch file	`start cmd.exe`
`assoc`	Modify file associations	`assoc .txt=textfile`